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References

- Agora, Santosh. *Mathematical modeling of leachate recirculating landfills.* M.S. Thesis, University of Central Florida, Orlando, Florida, 1995.
- Albaiges, J., F. Casado, and F. Ventura. Organic indicators of groundwater pollution by a sanitary landfill. *Water Research* 20(9): 1153 (1986).
- Augenstein, D. and J. Pacey. Landfill methane models. Presented at the 29th SWANA International Solid Waste Conference, Cincinnati, 1991.
- Al-Yousfi, A. B. *Modeling of leachate and gas production and composition at sanitary landfills,* Pittsburgh, PA: University of Pittsburgh, PhD Thesis, 1992.
- Augenstein, D., J. Pacey, R. Moore, and S. Thorneloe. Landfill methane enhancement. In: *Proceedings from the SWANA 16th Annual Landfill Gas Symposium*, GR-LG 0016, Louisville, KY, 1993, 21-48.
- Baetz, B.W. and P.H. Byer. Moisture control during landfill operation. *Waste Management & Research* 7: 259-275 (1989).
- Baetz, B. W. and K. A. Onysko. Storage volume sizing for landfill leachate-recirculation systems. *Journal of Environmental Engineering* 119 (2): 378-383 (1993).
- Bagchi, A. *Design, Construction, and Monitoring of Landfills.* John Wiley & Sons, Inc, New Yor, NY, 1994.
- Barber, C., and P.J. Maris. Recirculation of leachate as a landfill management option: benefits and operational problems. *Q.J. Engineering Geology, London*, 17:19-29 (1984).
- Barlaz, M.A., R.K. Ham, and D.M. Schaefer. Methane production from municipal refuse: a review of enhancement techniques and microbial dynamics. *Critical Reviews in Environmental Control*, 19(6): 557 (1990).
- Bennett, G.F. Air quality aspects of hazardous waste landfills. *Journal of Hazardous Waste and Hazardous Materials*, 4(2): 119, (1987).
- Bleiker, D. E., E. McBEEan, and G. Farquhar. Refuse sampling and permeability Testing at the Brock West and keele Valley Landfills. presented at the Sixteenth International Madison Waste Conference, Madison, WI, September 22-23, 1993.

Bookter, T.J. and R.K. Ham. Stabilization of solid waste in landfills, *Journal of Environmental Engineering*, 108(6) 1089 (1982).

Brown, K.W. and K.C. Donnelly. An estimation of the risk associated with the organic constituents of hazardous and municipal waste landfill leachates. *Journal of Hazardous Wastes and Hazardous Materials*, 5(1): 3 (1988).

Brundin, H. The SORAB test cells. In: *Landfill Gas Enhancement Test Cell Data Exchange, Final Report of the Landfill Gas Expert Working Group*, P. Lawson, ed., Oxfordshire, England: International Energy Agency, Harwell Laboratory, 1991.

Buivid, M.G., D.L. Wise, M.J. Blanchet, E.C. Remedios, B.M. Jenkins, W.F. Boyd, and J.G. Pacey. Fuel gas enhancement by controlled landfilling of municipal solid waste. *Resources and Conservation*, 6: 3 (1981).

Campbell, D.J.V. UK Brogborough test cell project. In: *Landfill Gas Enhancement Test Cell Data Exchange, Final Report of the Landfill Gas Expert Working Group*. P. Lawson, ed., International Energy Agency, Harwell Laboratory, Oxfordshire, England, 1991.

Carra, J.S. and R. Cossu, ed. *International Perspectives on Municipal Solid Wastes and Sanitary Landfilling*. Academic Press, London, 1989.

Chian, E.S.K. Stability of organic matter in landfill leachates. *Water Research*, 11(2): 159, (1977).

Chian, E.S. and F.B. DeWalle. Characterization of soluble organic matter in leachate. *Environmental Science and Technology*, 11(2): 159, (1977).

Chian, E.S., DeWalle, F.B. Sanitary landfill leachates and their treatment. *Journal of Environmental Engineering* 102(EE2):411-431 (1976).

CMA Engineers, *Leachate Recirculation Annual Report*. Submitted to NHDES Waste Management Division, Portsmouth, NH, 1993.

Cossu, R. and G. Urbini. Sanitary landfilling in Italy. In: *International Perspectives on Municipal Solid Wastes and Sanitary Landfilling*. Carra, J.S. and R. Cossu, ed., London: Academic Press, 1989.

Delaware Solid Waste Authority. *Test cell report, November, 1992 - May, 1993*. Central Solid Waste Management Center, Sandtown, Delaware, 1993.

DeWalle, F.B., E. S. K. Chian, and E. Hammerberg. Gas production from solid waste in landfills. *Journal of Environmental Engineering*, 104(EE3):415-432 (1978).

Doedens, H. and K. Cord-Landwehr. Leachate recirculation. In: *Proceedings Sardinia '91, ISWA International Sanitary Landfill Symposium*, Calgari, Italy, 1987.

Doedens, H. and K. Cord-Landwehr. Leachate recirculation. In : *Sanitary Landfilling: Process, Technology and Environmental Impact*, T.H. Christensen, R. Cossu, and R. Stegmann, ed., Academic Press, London, 1989.

EMCON. *Twelve-month extension Sonoma County solid waste stabilization study (final report)*. GO6-EC-00351, San Jose, CA, 1976.

EMCON. *Controlled landfill project - fift annual report*. Project 343-03.02, San Jose, CA, 1987.

Fergusen, R.G. Sanitary landfilling in Canada. In: *International Perspectives on Municipal Solid Wastes and Sanitary Landfilling*, Carra, J.S. and R. Cossu, ed., Academic Press, London, 1989.

Fletcher, P. Landfill gas enhancement technology - laboratory studies and field research. In: *Proceedings of Energy from Biomass and Wastes*, XIII, IGT, 1989. pp. 1001.

Franklin Associates, Ltd. *Characterization of municipal solid waste in the United States - 1994 Update*. prepared for the US Environmental Protection Agency EPA530/S-94/042, 1994.

Fungaroli, A. A. and R. L. Steiner. *Investigation of sanitary landfill behavior*. EPA/6001/2-79, 1979.

Giroud, J. P., A. Khatami, and K. Badu-Tweneboah. Evaluation of the rate of leakage through composite liners. *Geotextiles and Geomembranes*, 8(4): 337-340 (1989).

Giroud, L.P. "Granular filters and geotextile gilters," *Proceedings of GeoFilters '96*. Lafleur, J. and Rollin, A. L., Editors, Montreal, Canada, 1996, pp 565-580.

Gonzales, A. J. "An integrated system for leachate reintroduction and gas venting." Presented at the 1994 GEOENVIRONMENT 2000 Conference, New Orleans, LA, USA, 1994.

Gould, J. P., W.H. Cross, and F. G. Pohland. Factors influencing mobility of toxic metals in landfills operated with leachate recycle. In: *Emerging Technologies in Hazardous Waste Management*, ed. D. W. Tedder and F. G. Pohland, ACS Symposium Series 422, 1989.

Gurijala, K. Rao. and J.M. Suflita. Environmental factors influencing methanogenesis from refuse in landfill samples. *Environmental Science & Technology*, 27(6):1176-1181 (1993).

Harmsen, J. Identification of organic compounds in leachate from a waste tip. *Environmental Science and Technology*, 17(6): 699 (1983).

Hartz, K.E., Klink, R.E., and R. K. Ham. Temperature effects: methane generation From landfill samples. *Journal of Environmental Engineering* 108(EE4):629-638 (1982).

IEA Expert Working Group on Landfill Gas. *Data Base of Landfill Test Cells*. 1995.

King, D. and A. Mureebe. Leachate management successfully implemented at landfill. *Water Environment and Technology* 4(9):42 (1992).

Klink, R.E. and R.K. Ham. Effect of moisture movement on methane production in solid waste landfill samples. *Resources and Conservation* 8: 29 (1982).

Koerner, G. R. and R. M. Koerner. Permeability of granular drainage material. Presented at the U.S. EPA Bioreactor Landfill Design and Operation Seminar, Wilmington Delaware, 1995.

Korfiatis, G. P. , A. C. Demetracopolous, E. L. Bourodimos, and E. G. Nawey. Moisture Transport in a Solid Waste Column. *Journal of Environmental Engineering*, 110(EE4):789-796 (1984).

Lagerkvist, A. Test cells in Sweden, status report, October 1991. In: *Landfill Gas Enhancement Test Cell Data Exchange, Final Report of the Landfill Gas Expert Working Group*, P. Lawson, ed., Oxfordshire, England: International Energy Agency, Harwell Laboratory, 1991a.

Lagerkvist, A. Two step degradation - an alternative management technique. In: *Proceedings Sardinia '91, Third International Landfill Symposium*, Calgari, Italy, 1991b.

LaRegina, J. and J.W. Bozzelli. Volatile organic compounds at hazardous waste sites and a sanitary landfill in New Jersey. *Environmental Progress*, 5(1): 18 (1986).

Lechner, P., T. Lahner, and E. Binner. Reactor Landfill experiences gained at the Breitnau Research Landfill in Austria. Presented at the 16th International Madison Waste Conference, Madison, Wisconsin, 1993.

Leckie, J.O., J.G. Pacey, and C. Halvadakis. Landfill management with moisture control. *Journal of Environmental Engineering* 105(EE2): 337 (1979).

Lema, J.M., Mendez, R., and Blazquez, R. Characteristics of landfill leachates and alternatives for their treatment: a review. *Water, Air and Soil Pollution*, 40:223-250(1988).

Leszkiewicz, J. and P. McAulay. Municipal solid waste landfill bioreactor technology closure and post-closure. Presented at the US EPA Seminar - Landfill Bioreactor Design and Operation,

New York Energy Research and Development Authority. *Enhancement of Landfill Gas Production, Nanticoke Landfill, Binghamton, New York*. NYSERDA Report 87-19, Wehran Engineering, July, 1987.

Noble, J.J. and A.E. Arnold. Experimental and mathematical modeling of moisture transport in landfills. *Chemical Eng. Comm.* 100:95-111 (1991).

Oman, Cecilia and P.Hynning. Identification of organic compounds in municipal landfill leachates. *Environmental Pollution* 80: 265-271 (1993).

Otieno, F.O. Leachate recirculation in landfills as a management technique. In: *Proceedings of Sardinia '89, Second International Landfill Symposium*, Calgari, Italy, 1989.

Oweis, I. and Khera R. Criteria for geotechnical construction of sanitary landfills. in *Int. Symp. on Envir. Geotech.*, H. Y. Fang, ed., Lehigh Univ. Press, Bethlehem, PA, 1986, 205-222.

Oweis, E.S., D. A. Smith, R. B. Ellwood, and D. S. Greene. Hydraulic characteristic of municipal refuse. *ASCE J. Geotechnical Eng.*, 116(4): 539-553 (1990).

Owens, J. M. and D. P. Chynoweth. Biochemical methane potential of MSW components. Presented at the International Symposium on Anaerobic Digestion of Solid Waste, Venice, Ital, April 15 - 17, 1992.

Pacey, J.G., J.C. Glaub, and R.E. Van Heuit. Results of the Mountain View controlled landfill project. In: *Proceedings of the GRCDA 10th International Landfill Gas Symposium*, GRCDA, Silver Spring, Maryland, 1987.

Palumbo, D. *Estimating Early MSW Landfill Gas Production*. MS Thesis, University of Central Florida, Orlando, Florida, 1995.

Pohland, F.G. *Sanitary Landfill Stabilization with Leachate Recycle and Residual Treatment*. U.S. Environmental Protection Agency, Cincinnati, Ohio, EPA-600/2-75-043, 1975.

Pohland, F.G. Leachate recycle as landfill management option. *Journal of Environmental Engineering* 106(EE6):1057-1069 (1980).

Pohland, F. G., S. R. Harper, K. Chang, J. T. Dertien, and E. S. K. Chian. Leachate generation and control at landfill disposal sites. *Water Pollution Research Journal of Canada* 20(3): 10-24 (1985).

Pohland, F.G. and S.R. Harper. *Critical Review and Summary of Leachate and Gas Production From Landfills*. EPA/600/2-86/073, US Environmental Protection Agency, Cincinnati, OH, 1986.

Pohland, F.G., W.H. Cross, J.P. Gould, and D.R. Reinhart. *The Behavior and Assimilation of Organic Priority Pollutants Codisposed with Municipal Refuse*. USEPA, EPA Coop. Agreement CR-812158, Volume 1, 1992.

Pohland, F.G. *Assessment of Solid Waste and Remaining Stabilization Potential after Exposure to Leachate Recirculation at a Municipal Landfill*. Prepared for Post, Buckley, Schuh & Jernigan, Inc, Project No. 07-584.18, 1992.

Rattray, T. Demographics and discards. *Garbage* 4(6): 27 (1993).

Rees, J.F. Optimisation of methane production and refuse decomposition in landfills by temperature control. *J. Chem. Tech. Biotechnol.* 30: 458-465 (1980).

Reinhardt, J.J. and R.K. Ham. *Solid Waste Milling and Disposal on Land without Cover*. U.S. Environmental Protection Agency, Cincinnati, Ohio, PB-234 930, 1974.

Robinson, H.D. and P.J. Maris. The treatment of leachates from domestic waste in landfill sites. *Journal of Water Pollution Control Federation* 57(1): 30 (1985).

Rovers, F.A. and G.J. Farquhar. Infiltration and landfill behavior. *Journal of Environmental Engineering* 99(10): 671-690 (1973).

Sawney, B.L. and R.P. Kozloski. Organic pollutants in leachates from landfill sites. *Journal of Environmental Quality* 13(3): 349 (1984).

Schultz, B. and P. Kjeldsen. Screening of organic matter in leachate from sanitary landfills using gas chromatography combined with mass spectrometry. *Water Research* 20(8): 965 (1986).

Siu, W, D. A. Levaggi, and T. F. Brennan. Solid waste assessment test results from landfills in the San Francisco Bay area. Presented at the 82nd Annual meeting and Exhibition of the Air and Waste Management Association, Anaheim, CA, 1989.

Stegmann, R. and H.H. Spendlin. Enhancement of degradation: German experiences. In: *Sanitary Landfilling: Process, Technology and Environmental Impact*. Ed.: T.H. Christensen, R. Cossu, and R. Stegmann, Academic Press, London, 1989.

Sulfita, J., C. Gerba, R. Ham, A. Palmisano, W. Rathje, and J. Robinson. The world's largest landfill. *Environmental Science & Technology* 26(8):1486-1495 (1992).

Tchobanoglous, G., H. Theisen, and S.A. Vigil, *Integrated Solid Waste Management: Engineering Principles and Management Issues*. McGraw-Hill, Inc., New York, NY, 1993.

ten Brummeler E.T., C.J. Horbach, and I.W. Koster. Dry anaerobic batch digestion of the

organic fraction of municipal solid waste. *Journal of Chem. Tech. and Biotechnology* 50:191-209 (1991).

Tittlebaum, M.E. Organic carbon content stabilization through landfill leachate recirculation. *Journal of Water Pollution Control Federation* 54: 428 (1982).

Townsend, T.G. *Assessment and Conceptual Design of an On-Site Leachate Treatment System Using Leachate Recycle, Membrane Separation and Land Application*. MS Thesis, University of Florida, Gainesville, 1992.

Townsend, T. G. *Leachate Recycle at the Southwest Landfill Using Horizontal Injection*. PhD Thesis, University of Florida, Gainesville, 1994.

U.S. Environmental Protection Agency. Solid waste disposal facility criteria; proposed rule. *Federal Register*, 53(168) 33313 (1988b).

U.S. Environmental Protection Agency. *Requirements for Hazardous Waste Landfill Design, Construction, and Closure*. Office of Research and Development, Cincinnati, OH, EPA/625/4-89/022, 1989.

U.S. Congress, Office of Technology Assessment. *Facing America's Trash: What Next for Municipal Solid Waste?* Office of Solid Waste and Emergency Response, Washington, D.C., PB90-174897, 1990.

US Environmental Protection Agency. *Report to Congress. Solid Waste Disposal in the United States*. EPA/530-SW-88-011B, Office of Solid Waste and Emergency Response, Washington, D.C., 1988a.

Venkataramani, E.S., Ahlert, R.C., and Corbo, P. Biological treatment of landfill leachates. *CRC Critical Reviews in Environmental Control*, 14(4):333-372 (1986).

Watson, R. State of Delaware's case history review: a full scale active waste management approach. Presented at the Modern Double Lined Landfill Management Seminar, Saratoga Springs, New York, 1993.

Wehran Engineering, P.C. & Dynatech Scientific, Inc. *Enhancement of Landfill Gas Production, Nanticoke Landfill, Binghamton, New York*. New York State Energy Research and Development Authority, NYSERDA Report 87-I9. July, 1987.

Willumsen, H.C. Registration and optimizing of gas production from closed waste test cells in landfills. In: *Landfill Gas Enhancement Test Cell Data Exchange, Final Report of the Landfill Gas Expert Working Group*, P. Lawson, ed., Oxfordshire, England: International Energy Agency, Harwell Laboratory, 1991.

Wood, J.A. and M.L. Porter. Hazardous pollutants in Class II landfills. *Journal of the Air Pollution Control Association*. 37(5): 609, (1987).

Young P.J. and A. Parker. The identification and possible environmental impact of trace gases and vapors in landfill gas. *Waste Management and Research*, 1: 213 (1983).